Special Issue

Biopolymers and Natural Scaffolds

Message from the Guest Editor

Nature provides a variety of inspiring biopolymers, which are produced by animals, plants and bacteria: collagen from different vertebrates and even invertebrates. chitosan from crabs, silk fibroin from silkworms and spiders, alginate and agarose from algae, gellan gum produced by bacteria, cellulose from wood, and pectins from fruits can be the basis of natural scaffolds, coatings and bioinks. Consequently, myriads of natural biopolymer-based biomaterials have been developed, including hydrogels, porous sponge-like materials, fibers, textile structures, membranes, and additively manufactured structures. Biopolymer-based scaffolds are applied as tissue grafts, for the administration of cells for tissue engineering applications as well as for the establishment of in vitro cell models to better understand healing and regeneration. In this Special Issue of *Polymers*, we will collect papers covering the most recent research in the field of biopolymer scaffolds, including preparation and characterization, the in vitro testing of cell responses and cell differentiation, the building of hierarchical structured scaffolds, in vitro cell models and in vivo studies.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2022)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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